

Jie (Joyce) Wang

Electron Microscopy Center Facility
Manager

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Education

M. E., Material Science & Engineering, Texas A&M University, USA	2008
M. S. Physics, Hong Kong University of Science & Technology, China	2006
B. S., Applied Physics, Shanghai Jiaotong University, China	2004

Career Highlights And Awards

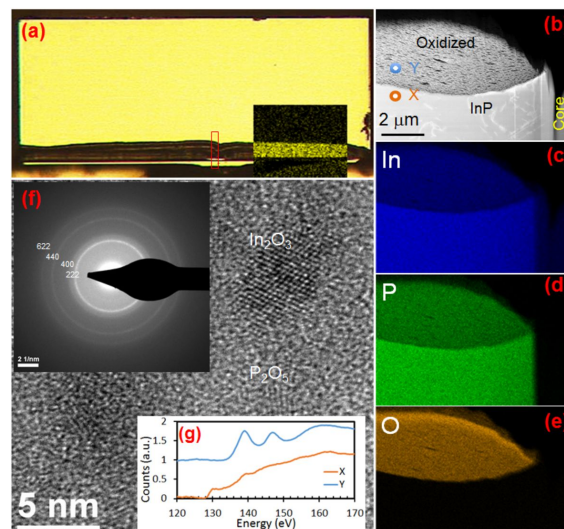
- Program Committee Member, Women in Science and Technology Program, Corning Incorporated, 2013-2015
- Distinguished Contribution Award, Corning, Incorporated, 2010
- Six Sigma Green Belt, Corning Incorporated, Corning, NY, 2010
- Fellowship, Smalley Institute, Rice University, 2008
- Fellowship, Electrical and Computer Engineering Department, Texas A&M University, TX, 2006-2008
- Outstanding Thesis Award, Shanghai Jiaotong University, Shanghai, 2003
- Exceptional Student Award, Shanghai Jiaotong University, Shanghai, 2001, 2002, 2003

Professional Experience

Argonne National Laboratory - Center for Nanoscale Materials (CNM) Electron Microscopy Center Facility Manager	2015-present
Corning Incorporated –Sullivan Park Research Center Sr. Scientist / Material Scientist	2008-2015
Texas A&M University – Department of Electrical and Computer Engineering Research assistant	2006-2008
Hong Kong University of Science and Technology – Department of Physics Research assistant	2004-2006

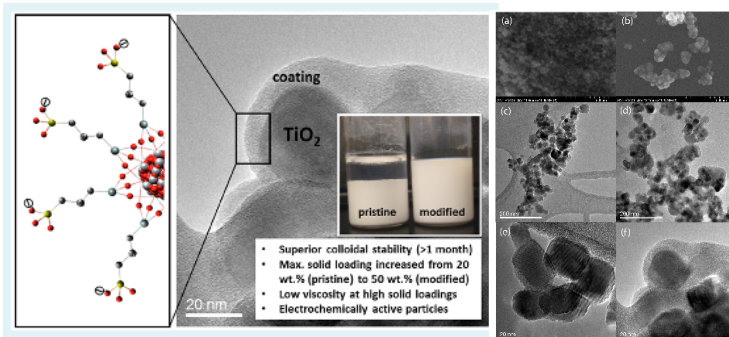
Selected Publications

1. Feng Xie, Hong-Ky Nguyen, Herve Leblanc, Larry Hughes, Jie Wang, Jianguo Wen, Dean J. Miller, Kevin Lascola, Long term reliability study and life time model of quantum cascade lasers, *Applied Physics Letters*, **2016**, 109, 121111.
2. Alex Y. Song, Rajaram Bhat, Andrew A. Allerman, Jie Wang, Tzu-Yung Huang, Chung-En Zah, and Claire F. Gmachl, Quantum cascade emission in the III-nitride material system designed with effective interface grading, *Applied Physics Letters*, **2015**, 107, 132104.

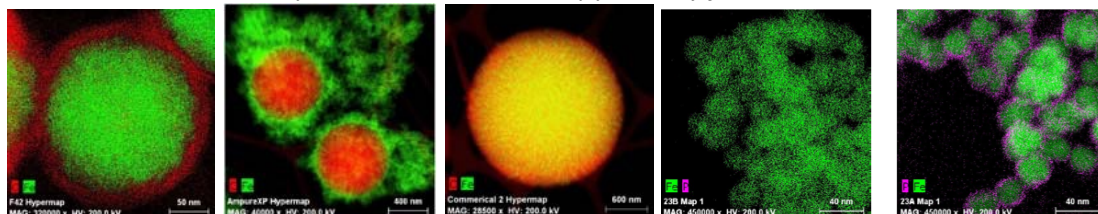


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3. Sujat Sen, Vijay Govindarajan, Christopher J. Pelliccione, Jie Wang, Dean J. Miller, and Elena V. Timofeeva, Surface Modification Approach to TiO₂ Nanofluids with High Particle Concentration, Low Viscosity, and Electrochemical Activity, *ACS Applied Materials & Interfaces*, **2015**, 7 (37), pp 20538- 20547.



4. Jie (Joyce) Wang, Lingyan Wang, Ann Ferrie, Yan Jin, Visualizing Structure of Bio-Functional Magnetic Nano-Particles with Analytical Electron Microscopy, *Society for Biomaterials*, **2015**, 156.



5. Feng Xie, Catherine G. Caneau, Herve P. LeBlanc, Ming-tsung Ho, Jie Wang, Satish Chaparala, Lawrence C. Hughes, and Chung-en Zah, High power and high temperature continuous-wave operation of distributed Bragg reflector quantum cascade lasers, *Applied Physics Letters*, **2014**, 104, 071109.
6. Q. Fu, J. Wang, B. Wheaton, K. Geisinger, Crystallization mechanism of Lithium Aluminosilicate (LAS) glass ceramics: nucleation, viscosity and microstructure, *10th Pacific Rim Conference on Ceramic and Glass Technology*, **2013**, PACRIM10-SB-023-2013.
7. Dmitry Sizov, Rajaram Bhat, Jie Wang, Donald Allen, Barry Paddock, Chung-En Zah, Development of semipolar laser diode, *Physica Status Solidi A*, March **2013**, Volume 210, Issue 3, pages 459–465.
8. Jie Wang, Chen-Fong Tsai, Zhenxing Bi, D. Naugle and Haiyan Wang, Microstructural and Pinning Properties of YBa₂Cu₃O_{7-δ} Thin Films Doped with Magnetic Nanoparticles, *IEEE Trans. Appl. Supercond.*, **2009**, 19, 3503-3506.
9. Haiyan Wang and Jie Wang, Interfacial Defects and Flux-Pinning Effects in Nanostructured YBa₂Cu₃O_{7-δ} Thin Films, *IEEE Trans. Appl. Supercond.*, **2009**, 19, 3395.
10. J. Wang, J.H. Kwon, J. Yoon, H. Wang, T.J. Haugan, F.J. Baca, N.A. Pierce, P.N. Barnes, Flux Pinning in YBa₂Cu₃O_{7-δ} Thin Film Samples Linked to Stacking Fault Density, *Appl. Phys. Lett.*, **2008**, 92, 082507.

